Service Manual

TOP NEXT

MTNC030623C1

B01/B05

Service Manual

Color Television

- CT-25L8G
  CT-25L8UG
  CT-20L8G
  CT-20G8G
  CT-20G8SG

NA10



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schem Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be repla with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permissio manufacturer.

TOP NEXT

6 Board description table

TOP PREVIOUS NEXT

CT-20G8/CT-20G8S

BOARD	PART NUMBER	DESCRIPTION
A	TNP2AH047AA	MAIN BOARD
C	TNP2AA122AA	CRT BOARD

CT-20L8G

BOARD	PART NUMBER	DESCRIPTION
A	TNP2AH047AB	MAIN BOARD
C	TNP2AA122AA	CRT BOARD

CT-25L8G/CT-25L8UG

BOARD	PART NUMBER	DESCRIPTION
A	TNP2AH047FA	MAIN BOARD
C	TNP2AA122FA	CRT BOARD

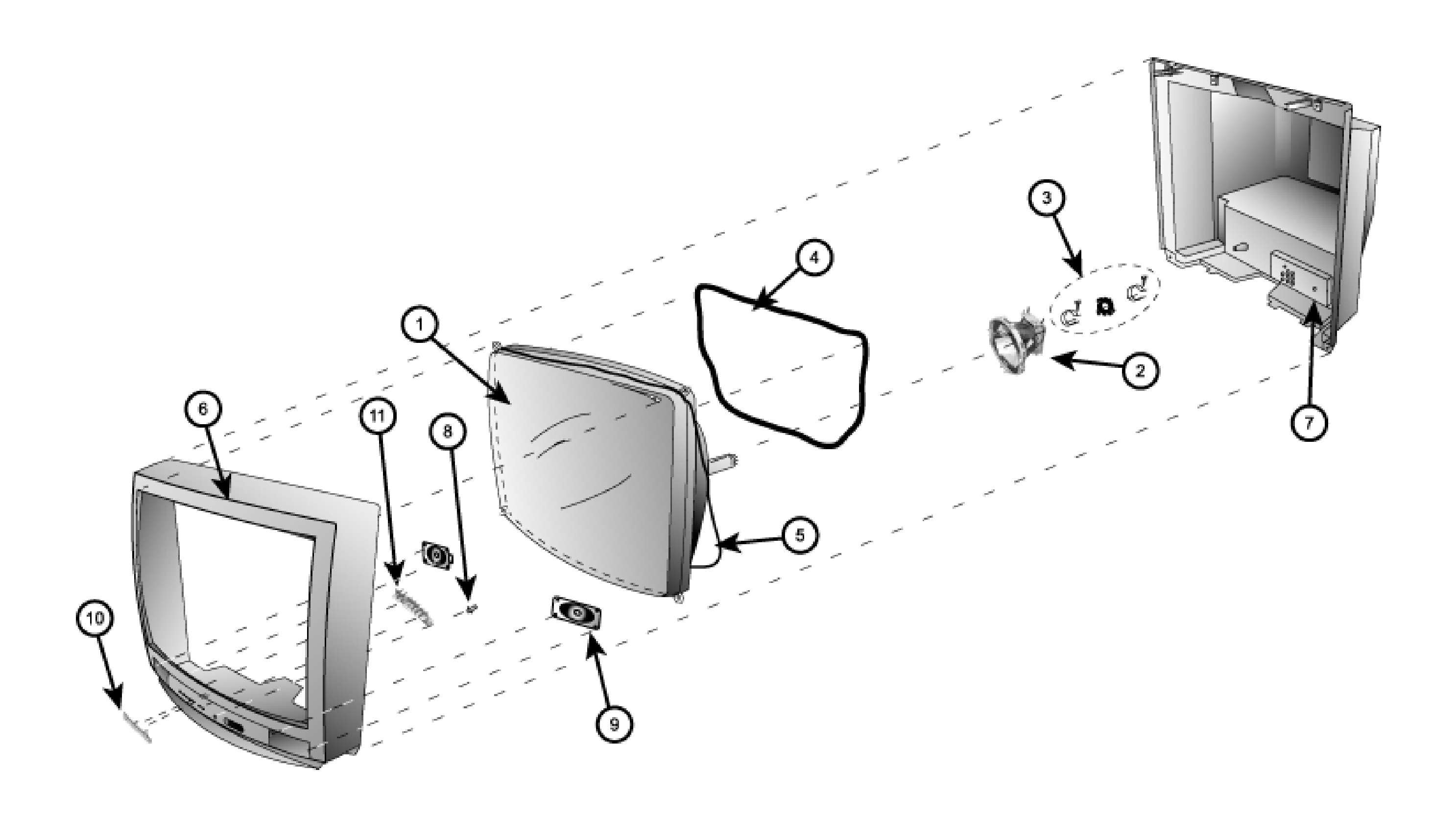
NOTE

When ordering a replacement board assembly, append an “S” to the board number

EXAMPLE

To order the A Board, the replacement board is TNP2AH047AAS.

TOP PREVIOUS NEXT


1
2
3
4
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9
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11

20.2 Parts List

TOP PREVIOUS

Ref. No.	Part No.	Part Name & Description	Remarks
		CAPRISTORS	
CRA801	TP00842-51	TAPING GAP TERMINAL	⚠
		CAPACITORS	
C003	ECA1HM4R7B	CAP E 4.7UF-50V	
C004	TCJ2VC1H150J	CAP C 15PF-J-50V	
C005	TCJ2VC1H150J	CAP C 15PF-J-50V	
C008	TCJ2VF1H103Z	CAP C .01UF-Z-50V	
C009	ECJ2VF1H104Z	CAP C .1UF-Z-50V	
C010	TCJ2VC1H680J	CAP C 68PF-J-50V	
C011	TCJ2VC1H680J	CAP C 68PF-J-50V	
C012	ECA1HM0R1B	CAP E 0.1UF/50V	
C013	TCJ2VC1H680J	CAP C 68PF-J-50V	
C016	ECA1AM101B	CAP E 100UF-10V	
C017	TCJ2VC1H680J	CAP C 68PF-J-50V	
C018	ECJ2VF1H103Z	CAP C .01UF-Z-50V CT-20G8G CT-20G8SG CT-20L8G	
C018	TCJ2VF1H103Z	CAP C .01UF-Z-50V CT-25L8G CT-25L8UG	
C019	ECA0JM102B	CAP E 1000UF-6.3V	
C020	ECA1CM102B	CAP E 1000UF/16V	
C021	TCJ2VF1H103Z	CAP C .01UF-Z-50V	
C031	TCJ2VC1H220J	CAP C 22PF-J-50V	
C032	ECA1AM470B	CAP E 47UF-10V	
C034	TCJ2VC1H390J	CAP C 39PF-J-50V	
C035	TCJ2VC1H120J	CAP C 12PF-J-50V	
C038	ECA1CM470B	CAP E 47UF/16V	
C039	TCJ2VB1H221K	CAP C 220PF-K-50V	
C041	ECA1HM2R2B	CAP E 2.2UF-50V	
C043	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C044	ECA0JM102B	CAP E 1000UF-6.3V	
C046	TCJ2VF1H103Z	CAP C .01UF-Z-50V	
C048	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C051	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C052	ECA1CM101B	CAP E 100UF/16V	
C053	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C054	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C055	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C056	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C057	ECEA1CN100UB	CAP E 10UF-16V	
C058	ECEA1CN100UB	CAP E 10UF-16V	
C059	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C060	ECEA1CN220UB	CAP E 22UF-16V	

C061	ECA1HM100B	CAP E 10UF/50V	
C062	ECA1HM100B	CAP E 10UF/50V	
C063	ECJ2VF1C104Z	CAP C .1UF-Z-16V	
C064	ECA1CM101B	CAP E 100UF/16V	
C066	TCJ2VC1H330J	CAP C 33PF-J-50V	
C067	TCJ2VC1H680J	CAP C 68PF-J-50V	
C068	ECA1CM100B	CAP E 10UF-16V	
C070	ECJ2VF1C104Z	CAP C .1UF-Z-16V	
C071	TCJ2VF1H103Z	CAP C .01UF-Z-50V	
C072	TCJ2VB1H221K	CAP C 220PF-K-50V	
C073	TCJ2VC1H101J	CAP C 100PF-J-50V	
C077	ECA1HM100B	CAP E 10UF/50V	
C079	TCJ2VC1H220J	CAP C 22PF-J-50V	
C083	TCJ2VF1H103Z	CAP C .01UF-Z-50V	
C085	ECJ2VB1C104K	CAP C .1UF-K-16V	
C350	ECA1CM101B	CAP E 100UF/16V	
C351	TCJ2VC1H101J	CAP C 100PF-J-50V CT-20G8G CT-20G8SG CT-20L8G	
C351	TCJ2VC1H331J	CAP C 330PF-J-50V CT-25L8G CT-25L8UG	
C352	TCJ2VC1H101J	CAP C 100PF-J-50V CT-20G8G CT-20G8SG CT-20L8G	
C352	TCJ2VC1H331J	CAP C 330PF-J-50V CT-25L8G CT-25L8UG	
C353	TCJ2VC1H151J	CAP C 150PF-J-50V CT-20G8G CT-20G8SG CT-20L8G	
C353	TCJ2VC1H331J	CAP C 330PF-J-50V CT-25L8G CT-25L8UG	
C354	ECKW3D102KBN	CAP C .001UF-K-2KVDC	
C357	EEANA1E1R0B	CAP E 1.0UF-25V	
C359	ECA1CM471B	CAP E 470UF-16V	
C360	ECA1HM4R7B	CAP E 4.7UF-50V	
C370	ECA1HM100B	CAP E 10UF/50V CT-25L8G CT-25L8UG	
C403	ECEA1CN220UB	CAP E 22UF-16V	
C411	ECQB1H683JF3	CAP P .068UF-J-50V	
C451	ECA1HM2R2B	CAP E 2.2UF-50V	
C452	ECA1CM220B	CAP E 22UF-16V	
C454	ECA1VHG101B	CAP E 100UF-35V	
C455	ECA1EM102E	CAP E 1000UF-25V	
C458	ECA1HM010B	CAP E 1UF-50V	
C459	ECA1VHG471E	CAP E 470UF-35V	
C460	ECQB1224KF3	CAP P .22UF-K-100V	
C461	ECQB1104JF3	CAP P .10UF-J-100V CT-25L8G CT-25L8UG	
C462	ECJ2VF1H103Z	CAP C .01UF-Z-50V	
C501	ECCR1H221JC5	CAP C 220PF-J-50V	
C505	ECQB1H104JF3	CAP P .10UF-J-50V	
C506	ECKR2H102KB5	CAP C 1000PF-K-500V	
C510	ECCR2H100D5	CAP C 10PF-D-500V	

C512	ECA2CM100B	CAP E 10UF-160V	
C531	ECA1HM4R7B	CAP E 4.7UF-50V	⚠
C540	TCJ2VF1H103Z	CAP C .01UF-Z-50V	
C551	ECA1VHG471B	CAP E 470UF-35V	⚠
C554	ECKR2H561KB5	CAP C 560PF-K-500V	
C555	ECA2EM220E	CAP E 22UF-250V CT-25L8G CT-25L8UG	⚠
C555	ECA2EM470E	CAP E 47UF-250V CT-20G8G CT-20G8SG CT-20L8G	⚠
C556	ECA1CM471B	CAP E 470UF-16V	⚠
C557	ECKR2H102KB5	CAP C 1000PF-K-500V CT-25L8G CT-25L8UG	
C557	ECKR2H222KB5	CAP C 2200PF-K-500V CT-20G8G CT-20G8SG CT-20L8G	
C560	ECQB1104JFW	OR ECQB1104JF3	⚠
C561	ECEA1HN010UB	CAP E 1UF/50V	
C562	ECKR2H561KB5	CAP C 560PF-K-500V	
C563	ECWH12H362JS	CAP P 3600PF-J-1.2KV CT-20G8G CT-20G8SG CT-20L8G	⚠
C563	ECWH16622JVB	CAP P 6200PF-J-1.5KV CT-25L8G CT-25L8UG	⚠
C564	ECWH12H822JS	CAP P .0082UF-J-1.2KV CT-25L8G CT-25L8UG	⚠
C564	ECWH12H472JS	CAP P .0047UF-J-1.2KV CT-20G8G CT-20G8SG CT-20L8G	⚠
C565	ECKW3D561JBR	CAP P 560PF-J-2KV CT-25L8G CT-25L8UG	⚠
C565	ECKW3D821JBP	CAP C 820PF-J-2KV CT-20G8G CT-20G8SG CT-20L8G	⚠
C566	ECKW3D181JBP	CAP C 180PF-J-2KV	⚠
C568	ECQM4473JZW	CAP P .047UF-J-400V CT-20G8G CT-20G8SG CT-20L8G	⚠
C568	ECWF2224JBB	CAP P .22UF-J-200V CT-25L8G CT-25L8UG	⚠
C569	ECWF2394JSR	CAP M .39UF-J-200V CT-20G8G CT-20G8SG CT-20L8G	⚠
C569	ECWF2474JSR	CAP P .47UF-J-200V CT-25L8G CT-25L8UG	⚠
C570	ECA1CM221B	CAP E 10UF-16V	
C571	ECA1CM220B	CAP E 22UF-16V	
C572	ECA0JM221B	CAP E 220UF-6.3V	
C573	ECA1CM101B	CAP E 100UF/16V	
C575	ECKR2H471KB5	CAP C 470PF-K-500V	
C593	ECA1CM470B	CAP E 47UF/16V	
C605	TCJ2VF1H103Z	CAP C .01UF-Z-50V	
C606	ECA0JM221B	CAP E 220UF-6.3V	
C800	ECKR3A152KBP	CAP C 1500PF-K-1KVDC	
C801	ECKWAE472ZED	CAP C 4700PF-Z-500V	⚠
C802	ECKWAE472ZED	CAP C 4700PF-Z-500V	⚠
C803	ECKWAE472ZED	CAP C 4700PF-Z-500V	⚠
C805	EC0S2DA221BB	CAP E 220UF/200V	

		CT-20G8G CT-20G8SG CT-20L8G	⚠
C805	EC0S2DA331BB	CAP E 330UF/200V CT-25L8G CT-25L8UG	⚠
C806	ECQM4103KZW	CAP P .01UF-K-400V	
C808	ECA1HM470B	CAP E 47UF-50V	
C809	ECKR1H102KB5	CAP C .001UF-K-50V CT-25L8G CT-25L8UG	
C809	ECKR1H152KB5	CAP C 1500PF-K-50V CT-20G8G CT-20G8SG CT-20L8G	
C810	ECKR1H471KB5	CAP C 470PF-K-50V	
C812	ECQU2A224MVA	CAP P .22UF-M-250VAC	⚠
C813	ECQU2A153MVA	CAP P .015UF-M-250VAC	⚠
C814	ECQU2A153MVA	CAP P .015UF-M-250VAC	⚠
C820	ECA1CM101B	CAP E 100UF/16V	
C821	TCJ2VF1H103Z	CAP C .01UF-Z-50V	
C822	ECKR3A221KBP	CAP C 220PF-K-1KV	
C823	ECA1VM471B	CAP E 470UF-35V	⚠
C824	ECKR3A102KBP	CAP C 1000PF-K-1KV	
C825	EEUMG2C221S	CAP E 220UF-160V	⚠
C826	ECKR3A471KBP	CAP C 470PF-K-1KV	
C827	ECA1CM102B	CAP E 1000UF/16V	
C828	ECA160V33UE	CAP E 33UF/160V	⚠
C829	ECA1CM471B	CAP E 470UF-16V	
C830	ECA1CM471B	CAP E 470UF-16V	
C2201	ECA1HM4R7B	CAP E 4.7UF-50V	
C2202	ECA1HM2R2B	CAP E 2.2UF-50V	
C2203	ECA1HM4R7B	CAP E 4.7UF-50V	
C2204	AP106K016CAE	CAP T 10UF/16V	
C2205	ECA1HMR33B	CAP E .33UF-50V	
C2206	ECQB1H223JF3	CAP P .022UF-J-50V	
C2207	AP335K016CAE	CAP T 3.3UF/16V	
C2208	ECJ2VB1C104K	CAP C .1UF-K-16V	
C2209	ECJ2VB1C104K	CAP C .1UF-K-16V	
C2210	ECJ2VB1C104K	CAP C .1UF-K-16V	
C2212	ECQB1H473JF3	CAP P .047UF-J-50V	
C2213	ECA1HMR47B	CAP E .47UF-50V	
C2214	ECA1AM101B	CAP E 100UF-10V	
C2215	EEANA1E100B	CAP E 10UF-25V	
C2216	TCJ2VC1H100D	CAP C 10PF-J-50V	
C2217	ECJ2VB1H102K	CAP C .001UF-K-50V	
C2218	ECJ2VB1H102K	CAP C .001UF-K-50V	
C2219	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2220	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C2301	ECA1EM102E	CAP E 1000UF-25V	
C2302	ECA1HM010B	CAP E 1UF-50V	
C2304	ECA1CM101B	CAP E 100UF/16V	

C2307	ECA1CM102B	CAP E 1000UF/16V	
C2308	ECKR1H103ZF3	CAP C .01UF-Z-50V	
C2312	ECA1HM010B	CAP E 1UF-50V	
C2313	ECA1EM220B	CAP E 22UF-25V	
C2317	ECA1CM102B	CAP E 1000UF/16V	
C2350	ECA1CM101B	CAP E 100UF/16V	
C3001	ECA1CM220B	CAP E 22UF-16V	
C3002	ECA1CM220B	CAP E 22UF-16V	
C3011	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3012	ECA1HM010B	CAP E 1UF-50V	
C3013	ECA1CM100B	CAP E 10UF-16V	
C3014	ECA1CM100B	CAP E 10UF-16V	
C3018	ECA1HM010B	CAP E 1UF-50V	
C3019	ECJ2VF1C105Z	CAP C 1.0UF-Z-16V	
C3025	ECA1HM100B	CAP E 10UF/50V	
C3234	ECA1CM470B	CAP E 47UF/16V	
C3240	TCJ2VF1H103Z	CAP C .01UF-Z-50V	
DIODES			
D001	MAZ30680ML	DIODE	
D002	MA2C165001VT	DIODE	
D003	MAZ30510HL	DIODE	
D006	MAZ33000HL	DIODE	
D007	MAZ30510HL	DIODE	
D010	MAZ40510MF	DIODE ZENER	
D055	MAZ40330MF	DIODE ZENER	
D360	MA2C165001VT	DIODE	
D380	MA2C029WBF	DIODE	
D451	B0EAKL000008	DIODE RECTIFIER	
D452	MA2C165001VT	DIODE	
D505	D1NL40V70	DIODE	
D531	MA2C165001VT	DIODE	⚠
D551	B0HAMM000072	DIODE FAST RECOVERY	⚠
D554	AU02V0	DIODE	⚠
D556	MA2C165001VT	DIODE	
D557	MAZ40270LF	DIODE ZENER	
D558	B0HANV000008	DIODE	
D559	EU2	DIODE	
D561	AU02V0	DIODE	⚠
D606	MA2C165001VT	DIODE	
D801	D3SBA60-4103	DIODE	⚠
D803	MAZ41200MF	DIODE ZENER	
D806	TAP2AA0003	PTC 3-OHM	⚠
D808	SARS01V1	DIODE	
D809	B0HAJP000015	DIODE	
D810	B0HAJP000015	DIODE	

D811	B0HAJP000015	DIODE	
D820	MA2C165001VT	DIODE	
D821	MAZ40470HF	DIODE ZENER	
D822	B0HAMM000103	DIODE	
D823	S3L60P154004	DIODE	⚠
D824	B0HAMM000072	DIODE FAST RECOVERY	
D2302	MAZ43000MF	DIODE ZENER	
D2305	CVS20A120MTA	DIODE	
D2307	CVS20A120MTA	DIODE	
D2350	MAZ40910LF	DIODE	
D2355	MAZ30510HL	DIODE	
D3001	MAZ40510MF	DIODE ZENER	
D3004	CVS20A120MTA	DIODE	
D3005	CVS20A120MTA	DIODE	
D3007	MAZ31100ML	DIODE ZENER	
D3008	MAZ31100ML	DIODE ZENER	
D3009	MAZ31100ML	DIODE ZENER	
D3010	MAZ31100ML	DIODE ZENER	
D3011	MAZ31100ML	DIODE ZENER	
D3012	MAZ31100ML	DIODE ZENER	
D3017	MAZ31100ML	DIODE ZENER	
D3018	MAZ31100ML	DIODE ZENER	
D3019	CVS20A120MTA	DIODE	
D3021	CVS20A120MTA	DIODE	
D3023	MAZ31100ML	DIODE ZENER	
D3024	MAZ31100ML	DIODE ZENER	
FUSES			
F801	XBA2A00101	FUSE 6.3A 125V	⚠
INTEGRATED CIRCUITS			
IC001	MN101E03GTB3	MPU	
IC002	TVR2AJ165S	EEPROM CT-20G8G CT-20G8SG	
IC002	TVR2AJ166S	EEPROM CT-20L8G CT-25L8G CT-25L8UG	
IC003	GP1UE282GK	IR SENSOR	
IC004	PST9128NR	RESET	
IC005	PQ3RD13	3.3V STBY REGULATOR	
IC451	AN5522	VERTICAL OUT AMP	
IC501	NC7SZU04M5X	H-DRIVE INVERTER	
IC551	AN78M09LB	9V VOLTAGE REGULATOR	
IC552	AN78M05LB	5V VOLTAGE REGULATOR	
IC801	STRW5634	MAIN POWER SUPPLY	⚠
IC802	0N3171RLF	OPTO-COUPLER	⚠
IC2201	AN5829S-E1V	MTS	
IC2301	AN17807A	AUDIO AMP	
IC3001	MM1114XFBE	VIDEO SWITCH	
COILS			

L002	EXCELSA39V	FERRITE BEAD	
L003	EXCELDR35V	FERRITE BEAD	
L005	EXCELSA35V	FERRITE BEAD	
L006	EXCELSA35T	FERRITE BEAD	
L007	ELESN330JA	COIL PEAKING 33UH	
L008	G0C470KA0029	COIL PEAKING 47UH	
L010	G0C2R2KA0029	COIL PEAKING 2.2UH	
L011	EXCELSA26T	FERRITE BEAD	
L012	G0C2R2KA0029	COIL PEAKING 2.2UH	
L013	EXCELSA26T	FERRITE BEAD	
L014	ELESN180KA	COIL PEAKING 18UH	
L015	ELESN3R3JA	COIL PEAKING 3.3UH	
L020	EXCELSA26T	FERRITE BEAD	
L023	EXCELSA26T	FERRITE BEAD CT-25L8G CT-25L8UG	
L032	EXCELSA26T	FERRITE BEAD	
L108	EXCELSA35V	FERRITE BEAD	
L110	G0C101KA0021	COIL PEAKING 100UH	
L245	EXCELSA35V	FERRITE BEAD	
L312	EXCELSA24T	FERRITE BEAD	
L351	G0C101KA0021	COIL PEAKING 100UH CT-25L8G CT-25L8UG	
L551	ELH5L4101	COIL CT-20G8G CT-20G8SG CT-20L8G	⚠
L551	ELH5L6128	COIL HORIZ. LINEARITY CT-25L8G CT-25L8UG	⚠
L552	EXCELSA39V	FERRITE BEAD	
L801	ELF15N011A	COIL CT-20G8G CT-20G8SG CT-20L8G	⚠
L801	ELF21V018A	COIL CT-25L8G CT-25L8UG	⚠
L802	ELEIN680KA	COIL PEAKING 68UH CT-20G8G CT-20G8SG CT-20L8G	
L802	TALL08T470KA	COIL CT-25L8G CT-25L8UG	
L803	TALL08T680KA	COIL	
L804	EXCELDR35V	FERRITE BEAD CT-20G8G CT-20G8SG CT-20L8G	
L805	EXCELDR35V	FERRITE BEAD CT-20G8G CT-20G8SG CT-20L8G	
L806	EXCELDR35V	FERRITE BEAD	
L807	EXCELSA35V	FERRITE BEAD	
L808	EXCELSA35V	FERRITE BEAD	
L809	EXCELDR35V	FERRITE BEAD CT-25L8G CT-25L8UG	
L810	EXCELDR35V	FERRITE BEAD CT-25L8G CT-25L8UG	
L2301	EXCELDR35V	FERRITE BEAD CT-20L8G CT-25L8G CT-25L8UG	
L2303	EXCELSA39T	FERRITE BEAD CT-25L8G CT-25L8UG	
L2305	EXCELSA35V	FERRITE BEAD	
		TRANSISTORS	

Q001	2SD601ARTX	TRANSISTOR	
Q057	2SB709ARTX	TRANSISTOR	
Q058	2SB709ARTX	TRANSISTOR	
Q070	2SD601ARTX	TRANSISTOR	
Q092	2SB709ARTX	TRANSISTOR	
Q351	2SC3063RL	TRANSISTOR	
Q352	2SC3063RL	TRANSISTOR	
Q353	2SC3063RL	TRANSISTOR	
Q354	2SD601ARTX	TRANSISTOR	
Q355	2SD601ARTX	TRANSISTOR	
Q356	2SD601ARTX	TRANSISTOR	
Q357	2SD601ARTX	TRANSISTOR	
Q358	2SD601ARTX	TRANSISTOR	
Q359	2SD601ARTX	TRANSISTOR	
Q360	2SB709ARTX	TRANSISTOR	
Q361	2SB709ARTX	TRANSISTOR	
Q362	2SB709ARTX	TRANSISTOR	
Q411	2SB0710AQL	TRANSISTOR	
Q412	2SD0602AQL	TRANSISTOR	
Q451	2SB709ARTX	TRANSISTOR	
Q501	2SC1573AH	TRANSISTOR	
Q501	2SC4212HLB	TRANSISTOR CT-25L8G CT-25L8UG	
Q551	2SC562200VLK	TRANSISTOR CT-20G8G CT-20G8SG CT-20L8G	⚠
Q551	2SC5902000LK	TRANSISTOR CT-25L8G CT-25L8UG	⚠
Q560	2SB709ARTX	TRANSISTOR	
Q605	2SB709ARTX	TRANSISTOR	
Q606	2SD601ARTX	TRANSISTOR	
Q801	2SD601ARTX	TRANSISTOR	
Q802	2SD601ARTX	TRANSISTOR	
Q820	2SA1767QTA	TRANSISTOR	
Q830	2SB1011QRL	TRANSISTOR	
Q831	2SC1473ATA	TRANSISTOR	
Q2350	2SB709ARTX	TRANSISTOR	
Q3001	2SD601ARTX	TRANSISTOR	
Q3002	2SD601ARTX	TRANSISTOR	
RELAYS			
RL801	K6B1AGA00042	RELAY	⚠
RESISTORS			
J327	ERDS2TJ471T	RES C 470-J-1/2W	
R001	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R004	ERJ6GEYJ562V	RES M 5.6K-J-1/10W	
R005	ERJ6GEYJ471V	RES M 470-J-1/10W	
R007	ERJ6GEYJ471V	RES M 470-J-1/10W	
R008	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R009	ERJ6GEYJ102V	RES M 1K-J-1/10W	

R014	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R015	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R016	ERJ6GEYJ221V	RES M 220-J-1/10W	
R017	ERJ6GEYJ221V	RES M 220-J-1/10W	
R018	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R019	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R020	ERJ6GEYJ221V	RES M 220-J-1/10W	
R021	ERJ6GEYJ101V	RES M 100-J-1/10W	
R022	ERJ6GEYJ101V	RES M 100-J-1/10W	
R023	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R024	ERJ6GEYJ101V	RES M 100-J-1/10W	
R025	ERJ6GEYJ101V	RES M 100-J-1/10W	
R026	ERDS1FJ561P	RES C 560-J-1/2W	
R032	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R033	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R034	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R035	ERJ6GEYJ332V	RES M 3.3K-J-1/10W	
R036	ERJ6GEYJ512V	RES M 5.1K-J-1/10W	
R037	ERJ6GEYJ912V	RES M 9.1K-J-1/10W	
R038	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R039	ERDS2TJ102T	RES C 1K-J-1/4W	
R040	ERJ6GEYJ680V	RES M 68-J-1/10W	
R041	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R042	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R043	ERJ6GEYJ153V	RES M 15K-J-1/10W	
R044	ERJ6GEYJ101V	RES M 100-J-1/10W	
R045	ERDS2TJ101T	RES C 100-J-1/4W	
R046	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R047	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R048	ERJ6GEYJ101V	RES M 100-J-1/10W	
R050	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R052	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R053	ERJ6GEYJ101V	RES M 100-J-1/10W	
R055	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R056	ERJ6GEYJ471V	RES M 470-J-1/10W	
R057	ERJ6GEYJ101V	RES M 100-J-1/10W	
R060	ERJ6GEYJ101V	RES M 100-J-1/10W	
R061	ERJ6GEYJ221V	RES M 220-J-1/10W	
R062	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R063	ERDS2TJ101T	RES C 100-J-1/4W	
R064	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R065	ERDS2TJ101T	RES C 100-J-1/4W	
R066	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R067	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R068	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R069	ERJ6GEYJ123V	RES M 12K-J-1/10W	
R070	ERJ6GEYJ561V	RES M 560-J-1/10W	

R071	ERJ6GEYJ680V	RES M 68-J-1/10W	
R072	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R073	ERJ6GEYJ471V	RES M 470-J-1/10W	
R074	ERJ6GEYJ471V	RES M 470-J-1/10W	
R075	ERJ6ENF3902V	RES M 39K-F-1/10W	
R076	ERJ6ENF6201V	RES M 6.2K-F-1/10W	
R077	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R078	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R080	ERJ6GEYJ183V	RES M 18K-J-1/10W	
R081	ERJ6GEYJ153	RES M 15K-J-1/10	
R082	ERJ6GEYJ183V	RES M 18K-J-1/10W	
R083	ERJ6GEYJ153V	RES M 15K-J-1/10W	
R084	ERDS2TJ182T	RES C 1.8K-J-1/4W	
R087	ERDS2TJ221T	RES C 220-J-1/4W	
R088	ERJ6GEYJ223V	RES M 22K-J-1/10W	
R092	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R093	ERJ6GEYJ331V	RES M 330-J-1/10W	
R351	ERG2FJ123H	RES M 12K-J-2W	
R352	ERG2FJ123H	RES M 12K-J-2W	
R353	ERG2FJ123H	RES M 12K-J-2W	
R354	ERC12GK272C	RES C 2.7K-K-1/2W	
R355	ERC12GK272C	RES C 2.7K-K-1/2W	
R356	ERC12GK272C	RES C 2.7K-K-1/2W	
R357	ERJ6ENF3300V	RES M 330-F-1/10W	
R358	ERJ6ENF3300V	RES M 330-F-1/10W	
R359	ERJ6ENF3300V	RES M 330-F-1/10W	
R360	ERJ6ENF1101V	RES M 1.1K-F-1/10W CT-20G8G CT-20G8SG CT-20L8G	
R360	ERJ6ENF9100V	RES M 910-F-1/10W CT-25L8G CT-25L8UG	
R361	ERJ6ENF1101V	RES M 1.1K-F-1/10W CT-20G8G CT-20G8SG CT-20L8G	
R361	ERJ6ENF9100V	RES M 910-F-1/10W CT-25L8G CT-25L8UG	
R362	ERJ6ENF1101V	RES M 1.1K-F-1/10W CT-20G8G CT-20G8SG CT-20L8G	
R362	ERJ6ENF9100V	RES M 910-F-1/10W CT-25L8G CT-25L8UG	
R363	ERJ6GEYJ101V	RES M 100-J-1/10W	
R364	ERJ6GEYJ101V	RES M 100-J-1/10W	
R365	ERJ6GEYJ101V	RES M 100-J-1/10W	
R369	ERDS2TJ393T	RES C 39K-J-1/4W CT-25L8G CT-25L8UG	
R370	ERDS2TJ224T	RES C 220K-J-1/4W CT-25L8G CT-25L8UG	
R371	ERJ6GEYJ101V	RES M 100-J-1/10W	
R372	ERJ6GEYJ101V	RES M 100-J-1/10W	
R373	ERJ6GEYJ101V	RES M 100-J-1/10W	
R374	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R375	ERJ6GEYJ102V	RES M 1K-J-1/10W	

R376	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R377	ERJ6ENF3300V	RES M 330-F-1/10W	
R378	ERJ6ENF3300V	RES M 330-F-1/10W	
R379	ERJ6ENF3300V	RES M 330-F-1/10W	
R380	ERJ6ENF1501V	RES M 1.5K-F-1/10W	
R381	ERJ6ENF1501V	RES M 1.5K-F-1/10W	
R382	ERJ6ENF1501V	RES M 1.5K-F-1/10W	
R383	ERJ6ENF3481V	RES M 3.48K-F-1/10W	
R384	ERJ6ENF7500V	RES M 750-F-1/10W	
R385	ERDS1FJ150P	RES C 15-J-1/2W	
R389	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R390	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R391	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R411	ERJ6GEYJ682V	RES M 6.8K-J-1/10W	
R412	ERJ6GEYJ471V	RES M 470-J-1/10W	
R413	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R414	ERJ6GEYJ471V	RES M 470-J-1/10W	
R451	ERDS1FJ1R0P	RES C 1.0-J-1/2W CT-25L8G CT-25L8UG	
R451	ERDS1FJ1R2P	RES C 1.2-J-1/2W CT-20G8G CT-20G8SG CT-20L8G	
R453	ERJ6GEYJ333V	RES M 33K-J-1/10W	
R454	ERJ6GEYJ243V	RES M 24K-J-1/10W CT-20G8G CT-20G8SG CT-20L8G	
R454	ERJ6GEYJ363V	RES M 36K-J-1/10W CT-25L8G CT-25L8UG	
R455	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R456	ERG3FJ151	RES M 150-J-3W	
R457	ERDS1FJ1R0P	RES C 1.0-J-1/2W	
R458	ERJ6GEYJ123V	RES M 12K-J-1/10W	
R459	ERJ6GEYJ122V	RES M 1.2K-J-1/10W CT-20G8G CT-20G8SG CT-20L8G	
R459	ERJ6GEYJ152V	RES M 1.5K-J-1/10W CT-25L8G CT-25L8UG	
R462	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R463	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R464	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R468	ERJ6ENF1962V	RES M 19.6K-F-1/10W	
R469	ERJ6ENF5621V	RES M 5.62K-F-1/10W	
R471	ERJ6GEYJ223V	RES M 22K-J-1/10W CT-25L8G CT-25L8UG	
R471	ERJ6GEYJ333V	RES M 33K-J-1/10W CT-20G8G CT-20G8SG CT-20L8G	
R504	ERDS2TJ102T	RES C 1K-J-1/4W	
R505	ERJ6GEYJ562V	RES M 5.6K-J-1/10W	
R506	ERG1SJ562P	RES M 5.6K-J-1W	
R507	ER0S2THF1802	RES M 18K-F-1/4W	⚠
R509	ERJ6ENF1002V	RES M 10K-F-1/10W	⚠
R510	ERG3FJ472	RES M 4.7K-J-3W CT-20G8G CT-20G8SG CT-20L8G	⚠

R510	ERG3FJ622	RES M 6.2K-J-3W CT-25L8G CT-25L8UG	⚠
R511	ERG3FJ622	RES M 6.2K-J-3W CT-25L8G CT-25L8UG	⚠
R512	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R514	ERJ6GEYJ392V	RES M 3.9K-J-1/10W	
R515	ERDS2TJ101T	RES C 100-J-1/4W	
R532	ERJ6ENF2202V	RES M 22K-F-1/10W	⚠
R533	ERJ6ENF1003V	RES M 100K-F-1/10W	⚠
R540	ERJ6GEYJ105V	RES M 1M-J-1/10W	
R541	ERDS2TJ274T	RES C 27K-J-1/4W	
R542	ERJ6GEYJ124V	RES M 120K-J-1/10W	
R551	ERX12SJR47P	RES M .47-J-1/2W	⚠
R552	ERDS1FJ1R0T	RES C 1.0-J-1/2W	⚠
R557	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R558	ERQ1CKPR56S	RES F .56-K-1W CT-25L8G CT-25L8UG	⚠
R558	ERQ2CJP1R5S	RES F 1.5-J-2W CT-20G8G CT-20G8SG CT-20L8G	⚠
R559	ERG2FJ683H	RES M 12K-J-2W	
R561	ERG2FJ102H	RES M 1K-J-2W	
R562	ERG2FJ270H	RES M 27-J-2W	
R563	ERG3FJ150H	RES M 15-J-3W	
R564	ERDS2TJ104T	RES C 100K-J-1/4W	
R565	ERDS2TJ393T	RES C 39K-J-1/4W CT-25L8G CT-25L8UG	
R565	ER0S2TKF9762	RES M 97.6K-F-1/4W CT-20G8G CT-20G8SG CT-20L8G	
R592	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R605	ERDS2TJ103T	RES C 10K-J-1/4W	
R606	ERJ6GEYJ562V	RES M 5.6K-J-1/10W	
R607	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R608	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R801	ERF7ZK1R5	RES W 1.5-K-7 CT-25L8G CT-25L8UG	
R802	ERG2FJ104H	RES M 100K-J-2W	
R804	ERG1DJ224P	RES M220K-J-1W	
R805	ERX2FZJR15H	RES M .18-J-2W	⚠
R806	ERX12SJ1R5P	RES M 1.5-J-1/2W	⚠
R807	ERDS2TJ681T	RES C 680-J-1/4W	
R808	ERX12SJ1R5P	RES M 1.5-J-1/2W	
R809	ERDS2TJ472T	RES C 4.7K-J-1/4	
R810	ERDS2TJ221T	RES C 220-J-1/4W	
R815	ERC12ZGK825D	RES C 8.2MEG-K-1/2W	⚠
R817	ERX3FJ6R8	RES M 6.8-J-3W CT-20G8G CT-20G8SG CT-20L8G	⚠
R821	ERDS1FJ1R0T	RES C 1.0-J-1/2W CT-25L8G CT-25L8UG	
R821	ERDS1FJ1R5T	RES C 1.5-J-1/2W	

		CT-20G8G CT-20G8SG CT-20L8G	
R822	ERDS1FJ1R0T	RES C 1.0-J-1/2W CT-25L8G CT-25L8UG	
R822	ERDS1FJ1R5T	RES C 1.5-J-1/2W CT-20G8G CT-20G8SG CT-20L8G	
R823	ERDS1FJ272T	RES C 2.7K-J-1/2W	
R824	ERDS2TJ223T	RES C 22K-J-1/4W	
R825	ERDS2TJ272T	RES C 2.7K-J-1/4W	
R827	ERJ6GEYJ153V	RES M 15K-J-1/10W	
R828	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R829	ERJ6GEYJ104V	RES M 100K-J-1/10W	
R830	ERG2FJ273H	RES M 27K-J-2W	
R831	ERDS2TJ682T	RES C 6.8K-J-1/4W	
R832	ERJ6GEYJ122V	RES M 1.2K-J-1/10W CT-25L8G CT-25L8UG	
R832	ERJ6GEYJ512V	RES M 5.1K-J-1/10W CT-20G8G CT-20G8SG CT-20L8G	
R833	ERJ6GEYJ473V	RES M 47K-J-1/10W	
R834	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R837	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R838	ERJ6GEYJ103V	RES M 10K-J-1/10W	
R850	ERQ12HJR22P	RES F .22-J-1/2W CT-25L8G CT-25L8UG	⚠
R850	ERQ12HJR56P	RES F .56-J-1/2W CT-20G8G CT-20G8SG CT-20L8G	⚠
R202	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R2201	ERJ6GEYJ224V	RES M 220K-J-1/10W	
R2203	ERJ6GEYJ272V	RES M 2.7K-J-1/10W	
R2204	ERJ6GEYJ272V	RES M 2.7K-J-1/10W	
R2205	ERDS2TJ101T	RES C 100-J-1/4W	
R2206	ERDS2TJ273T	RES C 27K-J-1/4W	
R2207	ERJ6GEYJ152V	RES M 1.5K-J-1/10W	
R2208	ERJ6GEYJ152V	RES M 1.5K-J-1/10W	
R2301	ERQ2CJP5R6S	RES F 5.6-J-2W CT-20G8G CT-20G8SG CT-20L8G	
R2351	ERJ6GEYJ102V	RES M 1K-J-1/10W	
R2352	ERJ6GEYJ152V	RES M 1.5K-J-1/10W	
R2357	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R2370	ERJ6GEYJ222V	RES M 2.2K-J-1/10W	
R3002	ERJ6GEYJ221V	RES M 220-J-1/10W	
R3003	ERJ6GEYJ221V	RES M 220-J-1/10W	
R3004	ERDS2TJ101T	RES C 100-J-1/4W	
R3005	ERJ6GEYJ334V	RES M 330K-J-1/10W	
R3006	ERJ6GEYJ151V	RES M 150-J-1/10W	
R3007	ERJ6GEYJ151V	RES M 150-J-1/10W	
R3008	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3009	ERJ6GEYJ682V	RES M 6.8K-J-1/10W	
R3010	ERJ6GEYJ334V	RES M 330K-J-1/10W	
R3011	ERJ6GEYJ682V	RES M 6.8K-J-1/10W	
R3012	ERDS2TJ101T	RES C 100-J-1/4W	

R3013	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3014	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3015	ERJ6ENF75R0V	RES M 75.0-F-1/10W	
R3016	ERDS2TJ181T	RES C 180-J-1/4W	
R3017	ERDS2TJ181T	RES C 180-J-1/4W	
R3018	ERDS2TJ101T	RES C 100-J-1/4W	
R3019	ERJ6GEYJ682V	RES M 6.8K-J-1/10W	
R3020	ERJ6GEYJ682V	RES M 6.8K-J-1/10W	
R3021	ERDS2TJ101T	RES C 100-J-1/4W	
R3022	ERDS2TJ101T	RES C 100-J-1/4W	
R3023	ERDS2TJ101T	RES C 100-J-1/4W	
R3024	ERDS2TJ101T	RES C 100-J-1/4W	
R3026	ERDS2TJ101T	RES C 100-J-1/4W	
R3027	ERDS2TJ101T	RES C 100-J-1/4W	
R3034	ERJ6GEYJ471V	RES M 470-J-1/10W	
R3035	ERJ6GEYJ562V	RES M 5.6K-J-1/10W	
R3036	ERJ6GEYJ183V	RES M 18K-J-1/10W	
R3037	ERJ6GEYJ471V	RES M 470-J-1/10W	
R3038	ERJ6GEYJ562V	RES M 5.6K-J-1/10W	
R3039	ERJ6GEYJ183V	RES M 18K-J-1/10W	
R3041	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R3042	ERJ6GEYJ472V	RES M 4.7K-J-1/10W	
R3101	ERJ6GEYJ334V	RES M 330K-J-1/10W	
R3102	ERJ6GEYJ334V	RES M 330K-J-1/10W	
R3103	ERJ6GEYJ334V	RES M 330K-J-1/10W	
R3104	ERJ6GEYJ334V	RES M 330K-J-1/10W	
SWITCHES			
S001	EVQPF106K	SWITCH	
S002	EVQPF106K	SWITCH	
S003	EVQPF106K	SWITCH	
S004	EVQPF106K	SWITCH	
S005	EVQPF106K	SWITCH	
S008	EVQPF106K	SWITCH	
S009	EVQPF106K	SWITCH	
TRANSFORMERS			
T501	ETH19Y211AZ	TRASMFORMER	
T551	TLF2AA004	TRANSFORMER FLYBACK CT-25L8G CT-25L8UG	⚠
T551	ZTFN32501A	TRANSFORMER FLYBACK CT-20G8G CT-20G8SG CT-20L8G	⚠
T801	ETS29AS1N5NC	TRANSFORMER CT-20G8G CT-20G8SG CT-20L8G	⚠
T801	SRW35EC-U07V	TRANSFORMER SWITCHING CT-25L8G CT-25L8UG	⚠
T3001	TF0402B04P03	TRANSFORMER	
T3002	TF0402B04P03	TRANSFORMER	
CRYSTALS / FILTERS			
X001	A1100005BD	CRYSTAL	
OTHERS			

TNR001	ENG36621G	TUNER	⚠
M001	TSX2AA0361	LINE CORD AC	
M002	TJSC00300	CRT SOCKET	
1	A51KQK99X01	CRT 20 INCH, DEFLECTION YOKE, PURITY AND CONVERGENCE RINGS CT-20G8G CT-20G8SG CT-20L8G	⚠
	A63QDB891X	CRT 25 INCH CT-25L8G CT-25L8UG	⚠
2	TLY2AA027	DEFLECTION YOKE CT-25L8G CT-25L8UG	⚠
3	JH291U-009	PURITY AND CONVERGENCE RINGS CT-25L8G CT-25L8UG	
4	TSP2AA008	COIL DEGAUSSING CT-20G8G CT-20G8SG CT-20L8G	⚠
	TSP2AA028	COIL DEGAUSSING CT-25L8G CT-25L8UG	⚠
5	TXF3A01BA3	ASSY. DAG GND CT-20G8G CT-20G8SG CT-20L8G	
	TXF3A01DF3	ASSY. DAG GND CT-25L8G CT-25L8UG	
M003	TMM2A30702	WEDGE YOKE	
M004	0FMK014ZZ	CONVERGENCE CORRECTOR STRIP	
M005	TSN40007	MAGNET PURITY CT-25L8G CT-25L8UG	
M006	TSN63115-4	MAGNET PURITY CT-20G8G CT-20G8SG CT-20L8G	
6	TXFKY13GSER	ASSY CABINET FRONT CT-20G8G	
	TXFKY14GSER	ASSY CABINET FRONT CT-20L8G	
	TXFKY15GSER	ASSY CABINET FRONT CT-20G8SG	
	TXFKY16GSER	ASSY CABINET FRONT CT-25L8G CT-25L8UG	
7	TXFKU11GSER	ASSY CABINET BACK CT-20G8G CT-20G8SG CT-20L8G	
	TXFKU12FSER	ASSY CABINET BACK CT-25L8G CT-25L8UG	
8	TKX2AA00401	IR GUIDE CT-20G8G CT-20G8SG CT-20L8G	
	TKX2AA00403	IR GUIDE CT-25L8G CT-25L8UG	
9	TAS2AA0012	SPEAKER 16-OHM 1.5W	
10	TBM2A10141	BADGE PANASONIC CT-20G8G	
	TBM2A10143	BADGE PANASONIC CT-20G8SG CT-20L8G CT-25L8G CT-25L8UG	
11	TBX2AA1303G	BUTTON 7-KEY CT-25L8G CT-25L8UG	
	TBX2AA1701GS	BUTTON 7-KEY CT-20G8G	
	TBX2AA1702G	BUTTON 7-KEY CT-20L8G	
	TBX2AA1702GS	BUTTON 7-KEY CT-20G8SG	
JK3001	TJB2AA0221	TERMINAL A/V 8P CT-20L8G CT-25L8G CT-25L8UG	
JK3001	TJB2A9064B	ASSY. JACK A/V CT-20G8G CT-20G8SG	

JK3002	TJB2AA0046	TERMINAL FRONT A/V	
JK3003	TJB2AA0171	TERMINAL S-VIDEO CT-20G8G CT-20G8SG	
OTHER ACCESSORIES			
M007	TQB2AA0452-1	OWNERS MANUAL CT-20G8G CT-20G8SG CT-20L8G	
M008	TQB2AA0461	OWNERS MANUAL CT-25L8G CT-25L8UG	
M009	EUR7713010	REMOTE CONTROL	
M010	UR77EC1303A	BATTERY COVER REMOTE CONTROL	

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